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SOURCE      Documentary as indicated. (Information specifically requested.)

RECENTLY PUBLISHED RESEARCH OF THE  
AZERBAIDZHAN MEDICAL INSTITUTE

"Chemical Composition and Blood-clotting Activity of Bugle (*Ajuga chila*) Occurring in Azerbaydzhan," K. K. Aliyev, Azerbaydzhan Med Inst

"Farmatsiya" Vol 9, No 5, 1946, pp 21 - 2

Preparations from the acetone extract of dried *Ajuga chia* plants contain vitamin K and accelerate clotting of human and animal blood. Intravenous injections in dogs are effective in 15 - 30 minutes, oral dosage in human subjects in about an hour. There is no significant change in thrombocyte count. In addition to its hemostatic action, the extract is beneficial to patients with pneumatic diseases. Phytochemical examination showed alkaloids 0.02, tannins 2.02, sugars 2.8 (after hydrolysis, 7), aldoses 0.6, ash 9.45, and moisture 8.41 %, vitamin K 5.8 mg %, bitter principles and essential oils in small amounts. Acetone is an effective solvent for extracting vitamin K to obtain hemostatic effect. *Ajuga chia* appears to merit wider use in medicine.

"Influence of Streptocide, Sulfidine, and Sulfazole on Urea Formation in Isolated Liver," K. M. Abilov, Azerbaydzhan Med Inst.

"Farmakol i Toksikol" Vol 5, No 3, 1946, pp 6 - 8

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Isolated cat liver was perfused with 200 ml of liquid, 10 - 11 cycles per hour, .5 - 2 hours. Streptococci (I), sulfidine (II), and sulfazole (III) were added to a mixture (1:1) of  $(\text{NH}_4)_2\text{CO}_3$  in defibrinated blood and of Ringer-Locke solution. Doses were 10, 20, and 40 mg/kg calculated on the animal weight. Small doses of II and III increased urea formation; medium and large doses decreased it. The small dose of I inhibited urea formation; the larger doses tended to restore the initial decrease. Hence I first hinders, then favors, protein degradation and cathepsin activity.

"A New Hemostatic Agent from Male Maize Blossoms and the Mechanism of Its Action," R. K. Aliyev, Azerbaydzhan Med Inst

"Farmatsiya" Vol 9, No 1, 1946, pp 30 - 1

By extracting 100 powdered male maize blossoms 8 hours in a Soxhlet with 300 ml acetone, filtering the extract, evaporating in vacuum, and dissolving the residue in 100 ml 9% EtOH a hemostatic drug is obtained. A dose of 0.5 cc/kg accelerates coagulation of dog blood when injected into the femoral artery. The drug has vasoconstrictor effect in frog legs. Clinical trials were favorable. Thrombocyte count was not significantly increased in the patients.

"Wound-healing Preparations from Plantain (Plantago major) Leaf," R. K. Aliyev, Azerbaydzhan Med Inst.

"Farmatsiya" Vol 8, No 2, 1945, pp 26 - 9

Plantain leaf contains glycosides, saponins, bitter compounds, tannins (1.72 %), sugars (5.2 % before and 6.4 % after hydrolysis), gums, chlorophyll, alkali metals, alkaline earth metals, and vitamins A, C, and K. The ash content (at 8 % moisture) is 12 - 14 %. A 10% ointment of powdered leaf in peachseed oil or vaseline quickly stops pus formation in impetigo and relieves skin inflammations, without any untoward effects on blood or internal organs.

"Vitamin K in Alfilaria (Erodium cicutarium)," R. K. Aliyev, Azerbaydzhan Med Inst

"Farmatsiya" Vol 8, No 1, 1945, pp 34 - 7

Vitamin K preparations from alfilaria accelerate coagulation of healthy as well as hypovitaminotic blood. Alfilaria merits wider use as a source of antihemorrhagic vitamin.

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